## Industrial coating
## Anti-corrosion primer, water-based, white
## without siccatives, zinc phosphate reduced, without talc
## good levelling, perfect adhesion

**Basis** Alkyd resin

| | | | Filler combination dolomite with | | |
|---|---|---|---|---|---|
| | | | HAR*-Talc (*Comparison*) | **SILLITIN V 85** | **AKTISIL PF 777** *(zinc phosphate reduced)* |
| | L 00068.1 | | [1] | [34] | [31] |
| **Pigment preparation** | *-- part 1 --* | | | | |
| | Demineralized water | | 8.00 | 8.00 | 8.00 |
| | WorléeDisperse 8400 W | (1) | 1.00 | 1.00 | 1.00 |
| | Rheovis PU 1333 | (2) | 0.45 | 0.45 | 0.45 |
| | Rheovis PU 1291 | (2) | 0.15 | 0.15 | 0.15 |
| | WorléeAdd 6410 | (1) | 0.20 | 0.20 | 0.20 |
| | *-- part 2 --* | | | | |
| | Kronos 2190 | (3) | 10.10 | 10.10 | 10.10 |
| | Microdol Super | (4) | 10.40 | 10.40 | 10.40 |
| | HAR-Talc )* | | 4.10 | --- | --- |
| | SILLITIN V 85 | (5) | --- | 4.10 | --- |
| | AKTISIL PF 777 | (5) | --- | --- | 8.20 |
| | Zinc phosphate ZP 10 | (6) | 6.60 | 6.60 | 2.50 |
| | *-- part 3 --* | | | | |
| | Demineralized water | | --- | --- | 5.00 |
| **Let down** | *-- part 4 --* | | | | |
| | Demineralized water | | 3.00 | 3.00 | 3.00 |
| | WorléeSol E 330 W | (1) | 50.00 | 50.00 | 50.00 |
| | Demineralized water | | 5.00 | 5.00 | --- |
| | WorléeAdd 458 | (1) | 1.00 | 1.00 | --- |
| | Total parts by weight | | 100.00 | 100.00 | 99.00 |

)* HAR = High Aspect Ratio

**Recommendation**

<u>SILLITIN V 85</u>

- good price / performance ratio
- inhibition of corrosive blistering and delamination at coating defects

<u>AKTISIL PF 777</u>

- high performance even at reduced use of zinc phosphate and without flash rust inhibitor


Münchener Straße 75 • DE-86633 Neuburg (Donau)
Phone +49 8431 53-0 • info@hoffmann-mineral.com

**Preparation**

| | |
|---|---|
| Pigment preparation | - mix raw materials from part 1<br>- premix ingredients of part 2 and add to part 1.<br>- add water from part 3 if necessary<br>- disperse by dissolver with toothed disc under cooling for 20 min at high shear force |
| Let down | - for completion, add raw materials from part 4 in the order given to pigment preparation |

**Application**
- undiluted with doctor blade on cold rolled steel Q-Panel type R 48
- Dry film thickness ≈ 80 µm, single layer

**Konditionierung**
- 24 days @ standard climate 23/50

**Hersteller**

(1) Worlée Chemie
(2) BASF
(3) Kronos International
(4) Omya
(5) HOFFMANN MINERAL
(6) Heubach

***More information on this topic:***
Neuburg Siliceous Earth in water-based corrosion protection – alkyd primer white


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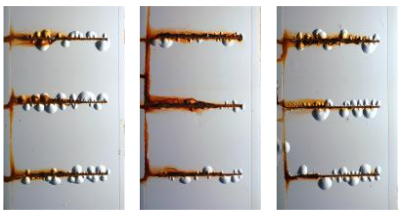
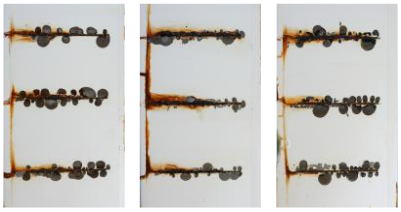
|---|---|---|---|---|---|---|
| | | | | HAR*-Talc *(Comparison)* | **SILLITIN V 85** | **AKTISIL PF 777** *(zinc phosphate reduced)* |
| | L00068.1 | | | [1] | [34] | [31] |
| **Technical Data** | Solids content (w/w) | | % | | all: 53 | |
| | PVC | | % | | all: 34 | |
| **Properties** | Dynamic viscosity 23 °C | 0.1 $s^{-1}$ | Pa·s | 1.20 | 1.37 | 1.59 |
| | | 1000 $s^{-1}$ | Pa·s | 0.23 | 0.24 | 0.24 |
| | Pendulum Hardness, Koenig | | s | 34 | 39 | 43 |
| | Cross-cut test 2 mm, tape tear-off | | | 0 | 0 | 0 |
| | Cupping, Erichsen | | mm | | all: > 7 | |
| | <u>Salt spray test, DIN EN ISO 9227 NSS, 360 h</u> | | | | | |
| | Rating acc. DIN EN ISO 4628 Part 2-5 and 8 | | | | | |
| | Cross-cut test 2 mm, tape tear-off | | | | | |
| | regeneration 0 h | | | 0 | 0 | 0 |
| | 24 h | | | 0 | 0 | 0 |
| | non-scribed area | | |  | | |
| | Blistering, cracking, flaking | | | | all: 0 (S0) | |
| | Rusting | | | | all: Ri 0 | |
| | 3 Scribes: Sikkens 1 mm | | |  | | |
| | *delaminated* | | |  | | |
| | Delamination | | | | all: only in blistering area | |
| | Corrosion | | | | all: very low | |





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